LoCo R3

⬢MOVECAT

MOVECAT LoCo R3 Load Control Receiver

The R3 Load Control Receivers are state-of-the-art devices in Movecat's Load Control (LoCo) series. They unite the optimum in operating comfort and visual control — especially when it comes to the monitoring of complex load systems and combinations.

One R3DX receiver can interpret, display visually and compile the data from a total of 48 load-measuring sensors — up to 12 of them analogue, 48 digital (LCS-DX) and in the R3RF version alternatively 48 digital (LCS-DX) or wireless LCS (LCS-RF) sensors, all of them naturally in mixed operation.

Visual control and ergonomic operation are provided by a 4.3" capacitive touch screen complemented by a cursor module and rotary/push-button encoder. Optionally, an external PC-compatible keyboard, mouse or track-ball can be connected. The important operating conditions and signals are also displayed by status LEDs on the front and rear.

The touch screen can display simultaneously data from up to 48 sensors and 6 load groups as well as the total load. The connected sensors can be assigned to individually defined and differing load groups. Overload and underload thresholds can be defined individually for each

sensor and each load group; furthermore, an overload threshold can be defined for the total load. By this means, supervision is assured for complex and comprehensive load systems. Operating statuses are displayed in an intuitive and unambiguous fashion using Movecat's tried-and-tested ‚traffic light' (red/amber/green) principle.

Safety is implemented internally using a microcontroller-based safety unit in accordance with EN 13849-1; this provides for the evaluation of the signals and the supervised implementation of the external safety-relevant signals. This allows for direct circuit integration in hoist systems or machine controllers for which Stop Category 0 safety shutdown is required.

Thanks to its diversity of inputs and outputs, the R3 receiver can be operated in countless configurations and combinations. These include stand-alone operation for load monitoring though the integration by means of DIG-LINK of up to four R3 devices and therefore up to 192 sensors in a load measuring network is possible; operation in conjunction with Movecat MPC motion controllers integrated via the M-link system and thus as an external safety module for the overload and underload monitoring of hoists in accor-

dance with IGVW SQ P2; integration into the I-Motion network for interpretation and visualization or even central analysis via an external PC. The data obtained can also be exported simply using a USB m-stick.

R3 receivers are ready for web server operation and can transmit the data optionally also in WLAN mode to smartphones and tablets without requiring additional apps.

Also available are a variety of potential-free relay outputs for the integration of further controllers and also 24 V DC outputs for the external handling of the overload, underload and ready conditions. A traffic-light module or alarm generator for enhanced visualisation, for example, can be connected directly to the 24 V outputs.

Models:

- **R3DX**
  load control receiver with 12 analogue and 48 digital inputs (max. 48 in total)

- **R3RF**
  load control receiver with 12 analogue and 48 digital as well as wireless inputs (max. 48 in total)

Technical data:

- 4.3" PCT touch screen
- Cursor module
- Rotary/push-button encoder
- Status LEDs
- Radio module, EU-sanctioned ISM band and Wake-On-Radio functionality (R3RF)
- 2 Ethernet ports RJ45
- USB 2.0 input for keyboard, mouse, trackball and m-Stick
- USB 2.0 output for PC visualization
- M-Link In/Out (MPC-series-compatible)
- Dig-Link In/Out (R3 series)
- 2 C5FC digital inputs, max. 24 LCS-AX sensors each
- 12 C4FC, 4-20 mA analogue inputs LCS-AX, LMS and LME sensors
- 2 SUB D-25-F (6 x AX inputs)
- SUB D-15-F (signal relay outputs)
- NC4F (OL/ER, UL, ready signals output) 24 V DC, max 1 A
- Mains switch
- PowerCon True, 100 - 240 V / 50 - 60 Hz input
- Metal housing, 19" 2U with device handles

Technische Daten:

- 110 - 240 V / 50 - 60 Hz power supply
- Dimensions: 482 x 88 x 300 mm
  (width x height x depth) without plug-in connector

Options / Accessories:

- keyboard with trackball
- warning module
- transport case